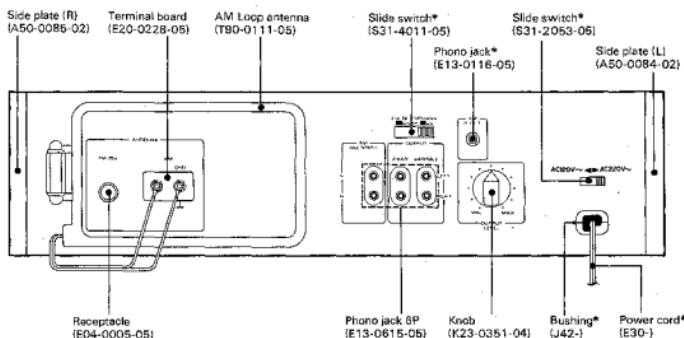
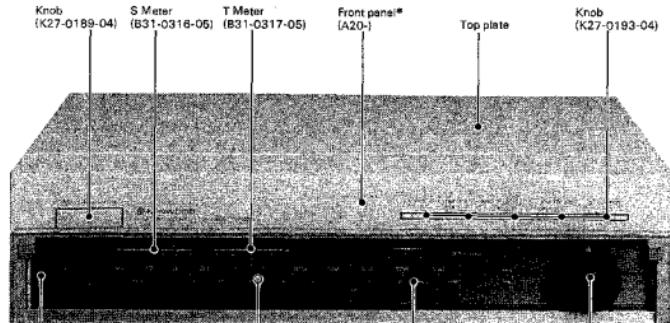


SERVICE MANUAL

KENWOOD®

KT-1000

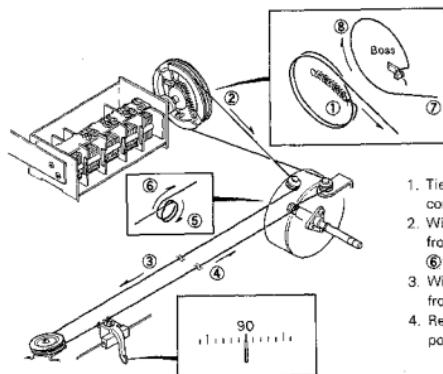
AM-FM STEREO TUNER



* Refer to Parts List.

DIAL CORD STRINGING/DISASSEMBLY FOR REPAIR

DIAL CORD STRINGING

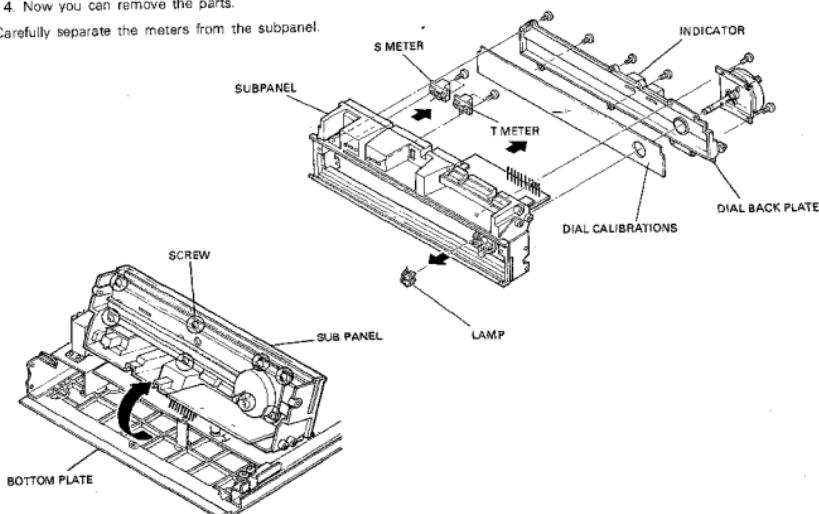


1. Tie the end of the dial cord to the spring. Dress the dial cord in the direction ① through ④
2. Wind the dial cord 2 turns around the dial shaft starting from its upper side. Dress the dial cord in the direction ⑥ through ⑦
3. Wind the dial cord 1 turn around the dial pulley starting from its lower side. Fix the dial cord to the boss. (⑧⑨)
4. Receive a 90 MHz signal and then mount the dial pointer at the 90 MHz position of the dial calibrations.

DISASSEMBLY FOR REPAIR

1. Remove the dial cord and the panel.
2. Loosen the screws of the subpanel.
3. Turn the subpanel as illustrated.
4. Now you can remove the parts.

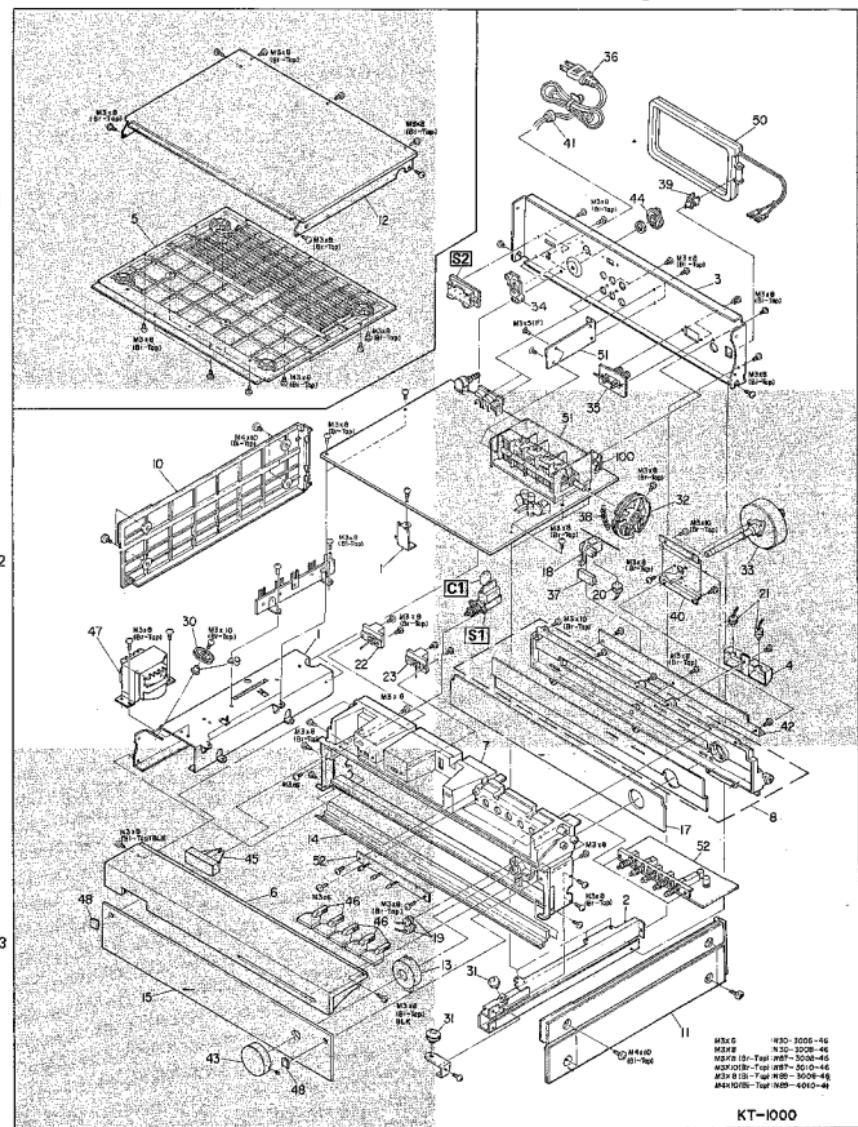
Carefully separate the meters from the subpanel.



EXPLODED VIEW

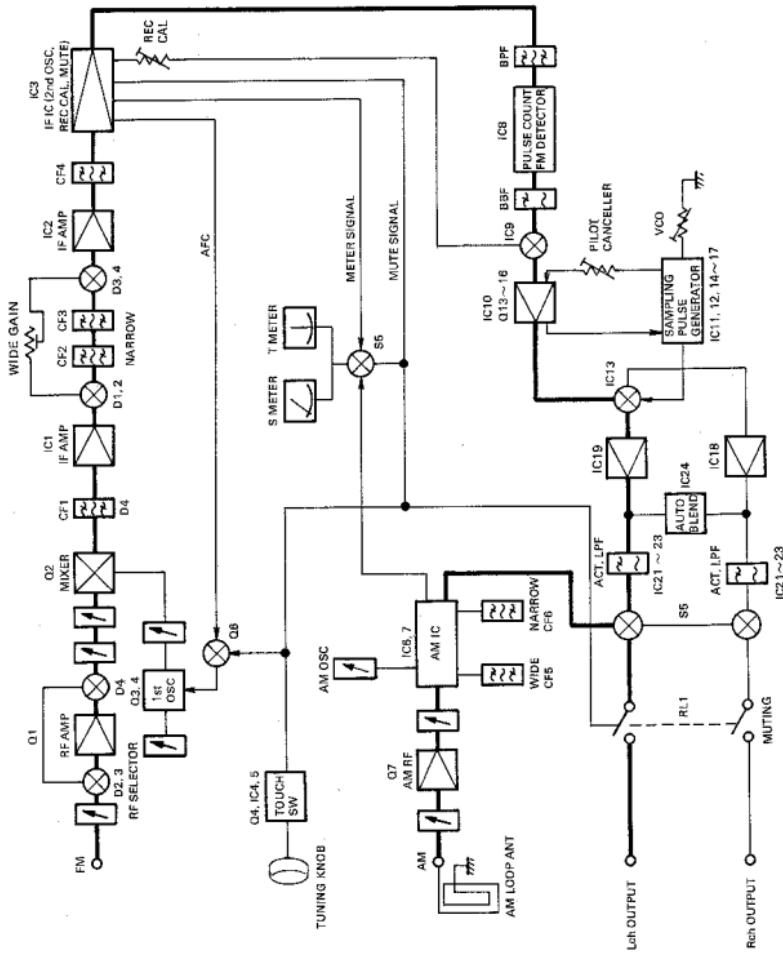
A

B



KT-1000

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

1. RF SELECTOR

The KT-1000's front end provides a normal position of high sensitivity at which a single-tuning circuit, RF amplifier, and double-tuning circuit work and a direct position at which a triple-tuning circuit works.

(1) At NORMAL position, a positive voltage applied to terminal Vsw of the front end turns on Q1 via R2 and turns on D3 via R18 and L10. C24 and C27 of the tuning circuit float from the ground since D2 and D4 are biased reversely, and instead C25 and C28 compensate. (C25

and C26 are grounded with D3 on.) L8 ~ L10 do not comprise a tuning circuit but simply work as choke coils. (2) At DIRECT position, a negative voltage applied to terminal Vsw cuts off Q1 and D3 goes off. An input signal coming from antenna enters the first tuning circuit and, via C25 and C26, goes to the second and third and finally comes to the mixer, bypassing the RF amplifier. Because D2 and D4 are on in DIRECT position and C24 and C27 respectively make up the first and second tuning circuits.

FRONT END (W02-0056-05)

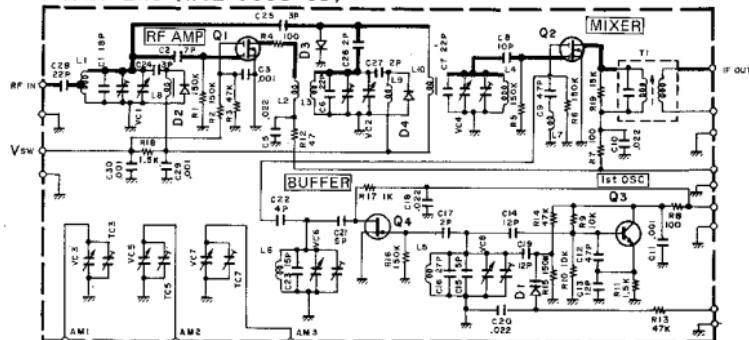


Fig. 1-1

NORMAL

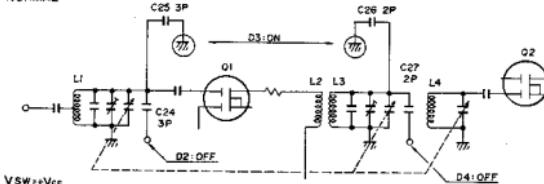


Fig. 1-2

DIRECT

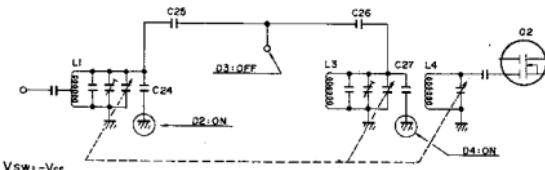


Fig. 1-3

CIRCUIT DESCRIPTION

2. SAMPLING PULSE GENERATOR

A sampling pulse generator which makes use of C-MOS devices is described here. For the pilot canceller, MPX, and emphasis selector, refer to KT-917 service manual.

IC14 (2-input OR gates) outputs a sampling pulse or "H" to switch over stereo and monaural modes. At the monaural mode, the output is always "H" since pin 5, an input pin (Q20's collector) of the OR gate, is "H". At the stereo mode, Q20 outputs "L" and the OR gate outputs "H" only when pin 6 of the OR is "H". Thus the output waveform is the same as the sampling pulse.

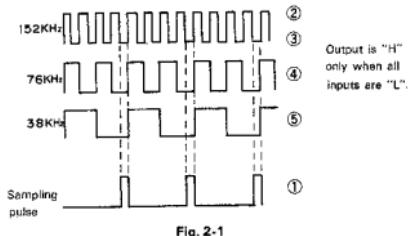


Fig. 2-1

IC15 and IC16 (4-input NOR gates) outputs NOR pulses of 152 kHz, 76 kHz, and 38 kHz. Figure 2-1 is the timing diagram of IC15. An output pulse appears just before the rise of the 38-kHz square wave. The other NOR gate contained in IC15 receives the inverted waveform of the 38-kHz square wave and outputs a pulse waveform which is out of phase by $\pi/2$. (See Figure 2-2.) IC16 as well as IC15 receives 38-kHz square waves and inverted 76-kHz square wave and outputs pulses shifted by $\pi/4$ and $3/4\pi$. The outputs of IC16 are used as sampling pulses of the L and R channels. The outputs of IC15 are used as sampling pulses for cancelling SCA beating.

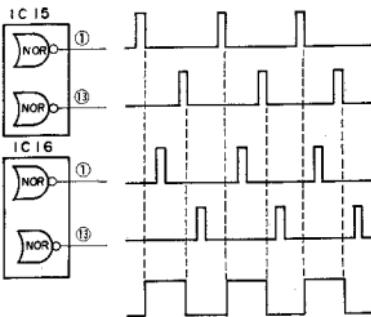


Fig. 2-2 L-channel switching 38-kHz pulse and sampling pulses.

IC17 (D F-F) divides a 152-kHz pulse coming from IC12 into a 76-kHz pulse. Part of the output is routed to the PLL via a differentiator.

IC12 (VCO) oscillates at 304-kHz and outputs a square wave of 152-kHz which is supplied to IC15 ~ IC17 via buffer Q23.

IC11 (PLL) which makes up a PLL along with IC12 and IC17 generates the pilot cancelling pulse and 38-kHz square wave.

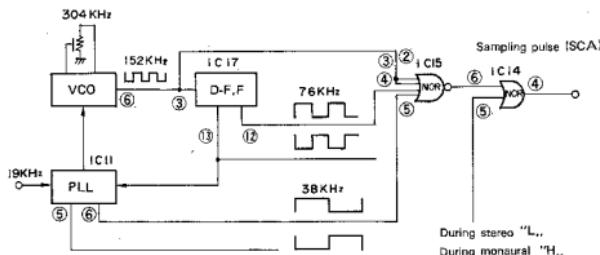


Fig. 2-3

CIRCUIT DESCRIPTION

3. TOUCH SENSOR SERVO LOCK

When the tuning knob is touched, AFC is released and an extra-low frequency range is cut off for easy tuning. When the tuning knob is touched, the oscillator consisting of Q4, L7, and C40 (which is directly connected to L7) stops oscillation.

When the knob is not touched, the oscillator's output rectified by D9 appears as a positive voltage at the cathode and enters IC4 through pin 3 (non-inverting input of an operational amplifier). A voltage of approximately +8V appears at pin 1 of IC4 and, inverted by Q32, turns off Q6.

When the knob is touched, only the current supplied through R40 flows through D9 and its anode becomes positive and cathode negative. IC4 inverts the input and

generates approximately -8V. Q32 inverts the output to turn on Q6 and short the AFC signal. On the other hand, the output of IC5 which is connected to the output of IC4 via D42 also becomes approximately -8V. This voltage turns off CMOS-SW of IC8 to cut extra-low frequencies of FM demodulated signals. The initial condition will be restored as soon as one releases the knob. But CMOS-SW turns on after completion of the servo lock operation by giving a time constant to the input circuit of IC5. CMOS-SW is normally turned on to cut off extra-low frequency components, which would appear when an FM receiver is tuned in or out and would be heard as a popping noise. In the normal state (CMOS-SW ON) extends frequency response to the extra-low frequency range.

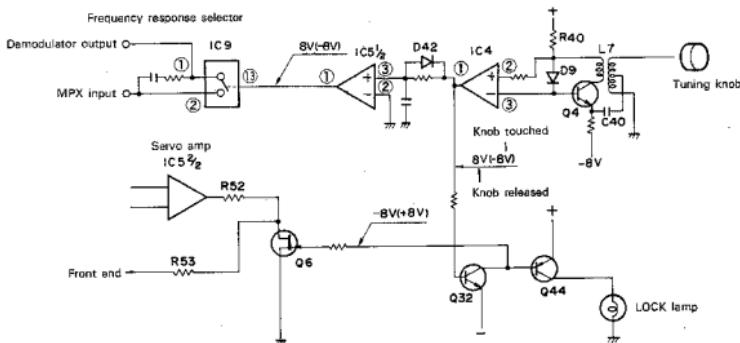


Fig. 3 Touch sensor servo lock

ADJUSTMENT

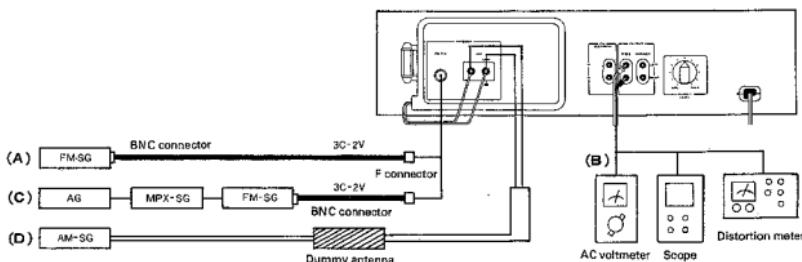
Set the MODE switch to AUTO/MUTING, IF BAND switch WIDE and RF SELECTOR switch NORMAL. REC CAL switch OFF, unless otherwise specified.

NO.	ITEM	SYSTEM CONNECTIONS	TEST EQUIPMENT SETTING	TUNER (RECEIVER) SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG. NO.
FM SECTION							
1	T METER (1)	(A)*1	95 MHz 1 kHz, 75 kHz dev	95 MHz MODE: MONO IF BAND: NARROW	—	*2	
2	T METER (2)	ditto	95 MHz 1 kHz, 75 kHz dev 60 dB*3	95 MHz MODE: MONO	L4	T meter pointer to be at the center.	
3	S METER	ditto	95 MHz 1 kHz, 40 kHz dev 60 dB*3	95 MHz	VR1 (X13-2960)	*4	
4	WIDE GAIN	ditto	95 MHz 1 kHz, 40 kHz dev	95 MHz IF BAND: NARROW MODE: MONO	—	*5	
5	WIDE GAIN	ditto	*6	95 MHz IF BAND: WIDE MODE: MONO	VR1	S meter deflection: Same as NARROW.	
6	REC CAL	(B)	—	REC CAL: ON	VR2	0.38V	(8)
7	DISTORTION (STEREO)	(C)/(B)	95 MHz 1 kHz, 68.25 kHz dev*7 60 dB*3 Selector: L or R	95 MHz	T1 (Front end)	Minimum distortion	
8	PILOT CANCELLER	(C)/SCOPE to the connecting point of R151 and R152.	95 MHz Pilot signal 60 dB*3	ditto	VR11, L17	Minimum output	(5) (13)
9	VCO	(C)/Frequency counter to the connecting point of R162 and Q17 via SSVM. *8	95 MHz 0 (dev) 60 dB*3	ditto	VR10	76 kHz	
10	SCA (L)	(C)/(B)	95 MHz 67 kHz, 7.5 kHz dev Selector: L + R 60 dB (ANT input)	95 MHz	VR8	Minimum output	
11	SCA (R)	ditto	ditto	ditto	VR9	Minimum output	
AM SECTION							
(1)	RF ALIGNMENT (AM)	(D)/(B)	600 kHz 400 Hz, 30% mod	AM 600 kHz	L11, 12, 13	Maximum amplitude and symmetry of the oscilloscope display.	
(2)	RF ALIGNMENT (AM)	(D)/(B)	1400 kHz 400 Hz, 30% mod	AM 1400 kHz	TC3, 5, 7	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (1) and (2) severaltimes.							
(3)	S METER	(D)/(B)	1400 kHz 60 dB (ANT input)	1400 kHz	VR3	*4	
(4)	T METER	ditto	ditto	ditto	VR4	T meter pointer to be on the center line.	

ADJUSTMENT

Note: Separation has been adjusted using accurate measuring instruments. Since an ordinary MPX-SG does not have sufficient phase accuracy (especially at 10 kHz), do not use one for separation adjustment. It is not recommended that separation is adjusted in servicing. For reference, separation adjustment procedures are shown in the following.

NO.	ITEM	SYSTEM CONNECTIONS	TEST EQUIPMENT SETTING	TUNER (RECEIVER) SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG. NO.
①	SUB	(C)/(B)	95 MHz 1 kHz, 68.25 kHz Dev *7 60 dB *3 Selector: L → R	95 MHz	L16	Maximum output	⑪ ⑫
②	SEPARATION (1)	ditto	95 MHz 1 kHz, 68.25 kHz Dev *7 60 dB *3 Selector: L	95 MHz IF BAND: WIDE	VR6 (L → R)	Minimum crosstalk from the other channel.	
③	SEPARATION (2)	ditto	95 MHz 1 kHz, 68.25 kHz Dev *7 60 dB *3 Selector: R	ditto	VR6 (R → L)	ditto	
④	SEPARATION (3)	ditto	95 MHz 10 kHz, 68.25 kHz Dev *7 60 dB *3 Selector: L or R	ditto	L9	ditto *9	
Repeat alignments "① ~ ④" several times.							
⑤	SEPARATION (4)	(C)/(B)	95 MHz 1 kHz, 68.25 kHz Dev *7 60 dB *3 Selector: L or R	95 MHz IF BAND: NARROW	VR7	Minimum crosstalk from the other channel.	
⑥	AUTO BLEND	ditto	95 MHz 1 kHz, 68.25 kHz Dev *7 26 dB *3 Selector: L or R	ditto	VR2 (X13-2980)	Middle crosstalk from the other channel	⑫ ⑬

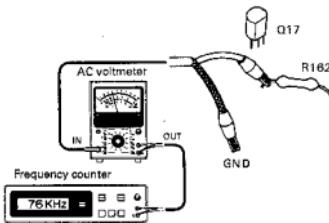


ADJUSTMENT

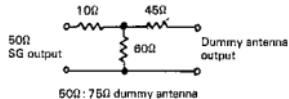
TEST INSTRUMENTS

Oscilloscope	SCOPE
AM signal generator.....	AM-SG
FM signal generator.....	FM-SG
Audio frequency generator	AG
AC voltmeter	
FM multiplex generator	FM-MPX
Frequency counter	
DC voltmeter	
Distortion meter	
Dummy antenna	

*6



- *1. To perform precise adjustment, a SG (with 75Ω output impedance) must be directly connected to the tuner. Use a connecting cable with a BNC connector at the SG end and an F connector at the tuner end. When an open-scaled SG (which indicates the output level when no load is connected) is used, subtract 6 dB from the SG reading to obtain ANT input level.
If the output impedance of the SG is 50Ω , use a new IHF standard $50\Omega : 75\Omega$ dummy antenna.



If an open-scaled SG is used, subtract 12 dB from the SG reading to obtain ANT input level. If a load-scaled SG (which indicates the output level when a 50Ω load is connected) is used, subtract 6 dB from the SG reading.

- *2. Adjust the tuning knob so that the same amount of noise is observed at the top and bottom of the output waveform with a weak signal.



- *3. Tuner input level.
- *4. S-meter deflection: 4.8 scale graduations.
- *5. TUNER input to achieve a S-meter deflection of 3 scale graduations.
- *6. TUNER input obtained at Step 4.
- *7. Set deviation to ± 68.25 kHz with selector in L+R position.
Set deviation of pilot signal to 6.75 kHz (9%).

REGLAGES

Placer le MODE dans la position AUTO/MUTING, IF BAND sur WIDE, RF SELECTOR sur NORMAL et REC CAL sur OFF sauf indiqué spécialement.

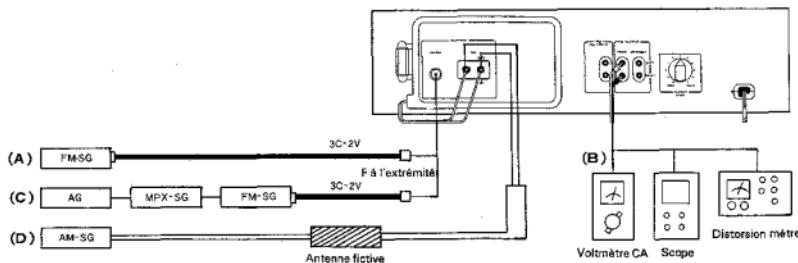
N°	ITEM	RACCORDEMENTS DU SYSTEME	REGLAGE DE L'APPAREILLAGE	REGLAGE DU TUNER (AMPLI-TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG. N°
SECTION MF							
1	INDICATEUR A ZERO CENTRAL (1)	(A) *1	95 MHz 1 kHz (mod) 75 kHz (dév)	95 MHz MODE: MONO	—	*2	
2	INDICATEUR A ZERO CENTRAL (2)	idem	95 MHz 1 kHz (mod) 75 kHz (dév) 60 dB (Entrée ANT) *3	95 MHz MODE: MONO	L4	Aiguille de l'indicateur à zéro central en position centrale.	
3	INDICATEUR DE CHAMP	idem	95 MHz 1 kHz (mod) 40 kHz (dév) 60 dB (Entrée ANT) *3	95 MHz	VR1 (X13-2980)	*4	
4	GRAND GAIN	idem	95 MHz 1 kHz (mod) 40 kHz (dév)	95 MHz IF BAND: NARROW MODE: MONO	—	*5	
5	GRAND GAIN	idem	*6	95 MHz IF BAND: WIDE MODE: MONO	VR1	Déviation du Vu-mètre: La même que pour NARROW	
6	REC CAL	(B)	—	REC CAL: ON	VR2	0.3BV	⑥
7	DISTORSION (STEREO)	(C)/(B)	95 MHz 1 kHz (mod) 68.25 kHz (dév) *7 60 dB (Entrée ANT) *3 SELECTION (L ou R)	95 MHz	T1 Tête H.T.)	Distorsion minimale.	
8	CIRCUIT SUPPRESSION DE SIGNAL PILOTE	(C)/Relier le SCOPE aux point de connection de R151 et R152.	95 MHz signal pilote 60 dB (Entrée ANT) *3	idem	VR11, L17	Sortie minimale.	⑤ ⑪
9	OSCILLATEUR 76 kHz	(C)/Compteur de fréquence au point d'intersection à R182 et Q17 par SSVM. *8	95 MHz 0 (dév) 60 dB (Entrée ANT) *3	idem	VR10	76 kHz	
10	SCA (L)	(C)/(B)	95 MHz 87 kHz (mod) 7.5 kHz (dév) SELECTION (L + R) 80 dB (Entrée ANT)	95 MHz	VR8	Sortie minimale.	
11	SCA (R)	ditto	ditto	ditto	VR9	Minimum output.	
SECTION MA							
(1)	RF ALIGNMENT (AM)	(D)/(B)	800 kHz 400 Hz, 30% mod	AM 600 kHz	L11, 12, 13	Maximum amplitude and symmetry of the oscilloscope display.	
(2)	ALIGNEMENT H.T. (MA)	(D)/(B)	1400 kHz 400 Hz, 30% mod	AM 1400 kHz	TC3, 5, 7	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Repérer les alignements (1) et (2) plusieurs fois.							
(3)	INDICATEUR DE CHAMP	(D)/(B)	1400 kHz 80 dB (Entrée ANT)	1400 kHz	VR3	*4	
(4)	INDICATEUR A ZERO CENTRAL	idem	idem	idem	VR4	Aiguille de l'indicateur à zéro central en position centrale.	

REGLAGES

Note: La séparation a été réglée en utilisant des instruments de mesure de précision. Du fait qu'un MPX-SG ordinaire n'a pas une précision de phase suffisante (généralement à 10 kHz), ne pas utiliser un tel appareil pour le réglage de la séparation. Il n'est pas recommandé d'effectuer le réglage de la séparation lors de l'entretien.

Les opérations de réglage de la séparation sont indiquées à la suite en référence.

N°	ITEM	RACCORDEMENTS DU SYSTEME	REGLAGE DE L'APPAREILLAGE	REGLAGE DU TUNER (AMPLI-TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG. N°
①	SUB	(C)/(B)	95 MHz 1 kHz (mod) 68,25 kHz (dév) *7 60 dB (Entrée ANT) *3 SELECTION: (L - R)	95 MHz	L16	Sortie maximale.	⑪ ⑫
②	SEPARATION (1)	idem	95 MHz 1 kHz (mod) 68,25 kHz (dév) *7 60 dB (Entrée ANT) *3 SELECTION (L)	95 MHz IF BAND: WIDE	VR5 (L→R)	Diaphonie minimale.	
③	SEPARATION (2)	idem	95 MHz 1 kHz (mod) 68,25 kHz (dév) *7 60 dB (Entrée ANT) *3 SELECTION: (R)	idem	VR6 (R→L)	idem	
④	SEPARATION (3)	idem	95 MHz 10 kHz (mod) 68,25 kHz (dév) *7 60 dB (Entrée ANT) *3 SELECTION: (L ou R)	idem	L9	idem *9	
Répéter les points "①~④" plusieurs fois							
⑤	SEPARATION (4)	(C)/(B)	95 MHz 1 kHz (mod) 68,25 kHz (dév) *7 60 dB (Entrée ANT) *3 SELECTION: (L ou R)	95 MHz IF BAND: NARROW	VR7	Diaphonie minimale.	
⑥	AUTO BLEND	Idem	95 MHz 1 kHz (mod) 68,25 kHz (dév) *7 26 dB (Entrée ANT) *3 SELECTION: (L or R)	idem	VR2 (X13-2960)	Diaphonie milieu.	⑪ ⑫

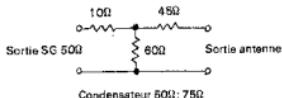


REGLAGES

APPAREILLAGE

Oscilloscopé	SCOPE
Générateur MA.....	AM-SG
Générateur MF	FM-SG
Générateur audio fréquences.....	AG
Voltmètre CA	
Générateur multiplex stéréo	FM-MPX
Fréquencemètre	
Voltmètre CC	
Distorsiomètre	
Antenne fictive	

*1. Pour réaliser un ajustement précis, SG (avec 75Ω d'impédance de sortie) doit être connecté directement au tuner. Utiliser un câble de connexion avec un connecteur BNC à l'extrémité de SG et un connecteur F à l'extrémité du tuner. Quand un SG à échelle ouverte (ce qui indique que le niveau de sortie au moment où il n'y a aucune charge de connectée) est utilisé, soustraire 6 dB de la lecture SG pour obtenir le niveau d'entrée ANT. Si l'impédance de sortie de SG est de 50Ω , utiliser une antenne artificielle de $50\Omega:75\Omega$ de la nouvelle norme IHF.



Si un SG à échelle ouverte est utilisé, soustraire 12 dB de la lecture SG pour obtenir le niveau d'entrée ANT. Si un SG à échelle chargée (ce qui indique le niveau de sortie au moment où la charge de 50Ω est connectée) est utilisé, soustraire 6 dB de la lecture SG.

*2. Adjuster le bouton d'accord de façon que la même quantité du bruit puisse être observé au sommet et en bas de la forme d'onde de sortie sous des conditions d'alimentation de signal faible.



*3. Niveau d'entrée du tuner.

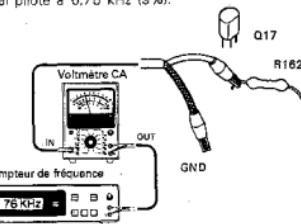
*4. Déviation de l'indicateur de champ: 4.8 graduations de l'échelle.

*5. TUNER entrée pour obtenir une déviation de 3 graduations d'échelle de l'indicateur de champ.

*6. TUNER entrée obtenue dans l'opération 4.

*7. Réglage la déviation à $\pm 68,25$ kHz avec le sélecteur en position L+R (gauch + droite). Réglage la déviation du signal pilote à 6,75 kHz (9%).

*8.



*9. Si l'on ne peut obtenir une séparation suffisante, tourner L9 dans les limites de $\pm 5^\circ$.

Si l'on tourne de trop, la séparation à 1 kHz sera dépassée).

ABGLEICH

Au ers wenn anders angegeben, MODE-Schalter auf AUTO/MUTING, IF BAND-Schalter auf WIDE, RF SELECTOR-Schalter auf NORMAL und REC CAL auf OFF einstellen.

NR.	GEGENSTAND	SYSTEM-ANSCHL�SSE	PR�FEIN-RICHTUNG-EINSTELLUNG	TUNER (RECEIVER)-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN F�R	ABB. NR.
UKW-ABTEILUNG							
1	KANAL-MITTEN-ANZEIGER (1)	(A)*1	95 MHz 1 kHz, 75 kHz Hub	95 MHz MODE: MONO	—	*2	
2	KANAL-MITTEN-ANZEIGER (2)	dito	95 MHz 1 kHz, 75 kHz Hub 60 dB *3	95 MHz MODE: MONO	L4	Nadel des Kanalmittenanzeigers mu� auf Mittellinie stehen.	
3	FELDST�RKE-INSTRUMENT	dito	95 MHz 1 kHz, 40 kHz Hub 60 dB *3	95 MHz	VR1 (X13-2960)	*4	
4	FELDST�RKE-INSTRUMENT (WEIT)	dito	95 MHz 1 kHz, 40 kHz Hub	95 MHz IF BAND: NARROW MODE: MONO	—	*5	
5	FELDST�RKE-INSTRUMENT (WEIT)	dito	*6	95 MHz IF BAND: WIDE MODE: MONO	VR1	S-Meter-Ausschlag: Gleich wie bei NARROW.	
6	REC CAL	(B)	—	REC CAL ON	VR2	0.38V	⑯
7	KLIRRFAKTOR (STEREO)	(C)/(B)	95 MHz 1 kHz, 68,25 kHz Hub *7 60 dB *3 SELECTOR: L oder R	95 MHz	T1 (Frontende)	Minimale Klirr.	
8	PILOT-L�SCHER	(C)/SCOPE zum Anschlusspunkt von R151 und R152.	95 MHz Pilotignal 60 dB *3	dito	VR11, L17	Minimaler Ausgang.	⑤ ⑯
9	SPANNUNGS-GEREGELTER OSZILLATOR	(C)/Dan Frequenzz鋘bler 脿ber SSVM zum Schnittpunkt von R162 und Q17 *8	95 MHz 0 (Hub) 60 dB (Eingangssignalpegel) *3	dito	VR10	76 kHz	
10	SCA (L)	(C)/(B)	95 MHz 67 kHz, 7,5 kHz Hub SELECTOR: L + R 60 dB (ANT-Eingang)	95 MHz	VR8	Minimaler Ausgang.	
11	SCA (R)	dito	dito	dito	VR9	Minimaler Ausgang.	
MW-ABTEILUNG							
(1)	HF-ABGLEICH (MW)	(D)/(B)	800 kHz 400 Hz, 30% mod	AM 600 kHz	L11, 12, 13	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(2)	HF-ABGLEICH (MW)	(D)/(B)	1400 kHz 400 Hz, 30% mod	AM 1400 kHz	TC3, 5, 7	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (1) und (2) mehrere Male wiederholen.							
(3)	FELDST�RKE-INSTRUMENT	(D)/(B)	1400 kHz 60 dB (ANT-Eingang)	1400 kHz	VR3	*4	
(4)	KANAL-MITTEN-ANZEIGER	dito	dito	dito	VR4	Nadel des Kanalmittenanzeigers mu� auf Mittellinie stehen.	

ABGLEICH

Zur Beachtung: Die Trennung wurde mit Hilfe von genauen Meßinstrumenten eingestellt. Da ein gewöhnlicher MPX-Meßsender keine ausreichende Phasengenauigkeit (besonders bei 10 kHz) hat, kein derartiges Gerät für die Einstellung der Trennung verwenden. Es ist empfehlenswert, die Trennung beim Warten einzustellen.

Das Vorgehen beim Einstellen der Trennung wird im folgenden beschrieben.

NR	GEGENSTAND	SYSTEM-ANSCHLÜSSE	PRÜFEINRICHTUNG-EINSTELLUNG	TUNER (RECEIVER)-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.NR.
①	SUB	(C)	95 MHz 1 kHz, 68,25 kHz Hub #7 60 dB #3 SELECTOR: L oder R	dito	L16	Maximaler Ausgang.	⑪ ⑫
②	STEREO KANAL TRENNUNG (1)	dito	95 MHz 1 kHz (Mod) 68,25 kHz (Hub) #7 60 dB #3 SELECTOR: L	95 MHz IF BAND: WIDE	Minimales (L → R)	VR6 Übersprechen.	
③	STEREO KANAL TRENNUNG (2)	dito	95 MHz 1 kHz (Mod) 68,25 kHz (Hub) #7 60 dB #3 SELECTOR: R	dito	VR6 (R → L)	dito	
④	STEREO KANAL TRENNUNG (3)	dito	95 MHz 10 kHz, 68,25 kHz Hub #7 60 dB #3 SELECTOR: L oder R	dito	L9	dito *3	
Abstimmungen...① bis ④' mehrere Male wiederholen.							
⑤	STEREO KANAL TRENNUNG (4)	(C)/(B)	95 MHz 1 kHz, 68,25 kHz Hub #7 60 dB #3 SELECTOR: L oder R	95 MHz IF BAND: NARROW	VR7	Minimales Übersprechen.	
⑥	AUTO BLEND	dito	95 MHz 1 kHz, 68,25 kHz Hub #7 20 dB #3 SELECTOR: L oder R	dito	VR2 (X13-2860)	Mitte Übersprechen	⑫ ⑬

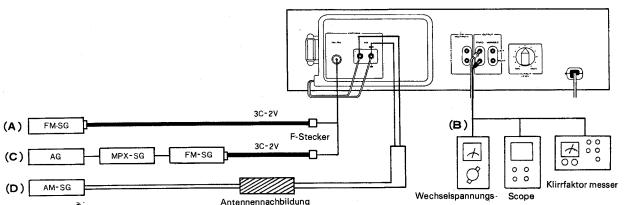
BEMERKUNG

Nach der Einstellung, sich vergewissern, daß UKW Empfang unter 87,5 MHz oder über 108,5 MHz nicht möglich ist.

Falls die UKW Station in diesem Bereich empfangen werden kann, wie folgt nachregeln.

1. UKW-Meßsender auf 108 MHz einstellen, 1 kHz (Mod) und 75 kHz (Dev) und an die antennenbuchse anschließen.

2. Den Astimmeranzeiger des Tuners auf 108 MHz einstellen.
3. TCO so einstellen, daß der Abstimmzähler den Mittelpunkt anzeigt.
4. TCR1, TCR2 und TCO so einstellen, daß der Signalzähler den Höchstwert anzeigt.



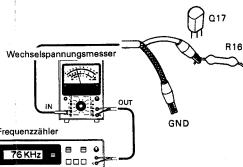
ABGLEICH

PRÜFINSTRUMENTE

Oszilloskop SCOPE
MW-Signalgenerator AM-SG
UKW-Signalgenerator FM-SG
NF-Signalgenerator AG
Wechselspannungsmesser
UKW-Multiplexgenerator FM-MPX
Frequenzzähler
Gleichspannungsmesser
Klirrfaktormesser
Antennennachbildung

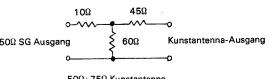
- *7. Hub mit dem Wahlschalter auf L + R auf 68,25 kHz einstellen. Hub des Kontrollsignals auf 6,75 kHz (9%) einstellen.

*8.



- *9. Ist die Trennung ungenügend, L9 innerhalb von ±3° drehen (wird über ±5° gedreht, so wird die 1 kHz-Trennung negativ beeinflusst).

- *1. Für präzise Einstellung muß das SG (75Ω Ausgangsimpedanz) direkt an den Tuner angeschlossen werden. Dazu ein Kabel mit einem BNC-Stecker am einen Ende und einem F-Stecker am anderen Ende verwenden. Wird ein offenes SG (zur Angabe des Ausgangspegels wenn keine zusätzliche Belastung angeschlossen ist) verwendet, 6 dB von der SG-Angabe subtrahieren um den ANT-Eingangspegel zu erhalten.
Ist die Ausgangs-Impedanz von SG 50Ω, das 50Ω : 75Ω Kunstantenna der neuen IHF-Norm verwenden.



Bei Verwendung eines offenen SG, 12 dB von der SG-Angabe subtrahieren, um den ANT-Eingangspegel zu erhalten. Wird ein belastetes SG (Angabe des Ausgangspegels bei Anschluß von 50Ω) verwendet, 6 dB von der SG Angabe subtrahieren.

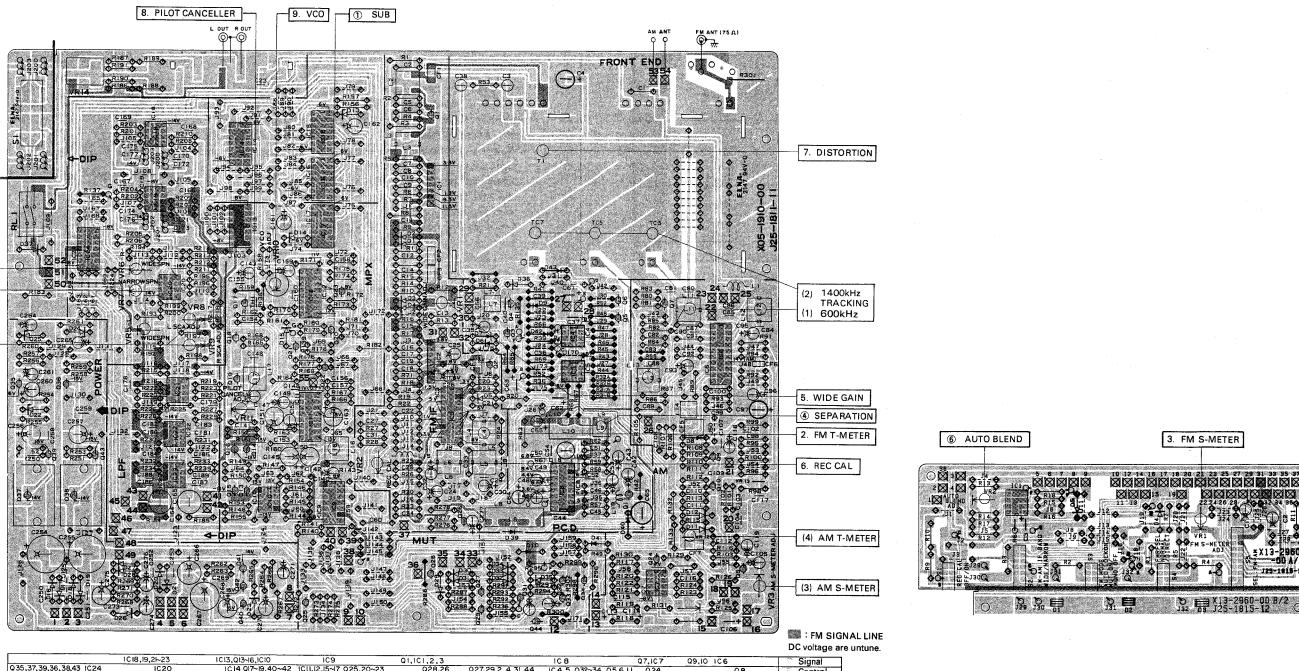
- *2. Den Abstimmknopf so einstellen, daß an der oberen und unteren Grenze der Ausgangswellenform bei schwachem Signal dasselbe Geräusch auftritt.



- *3. Tuner-Eingangspegel.
- *4. Feldstärkeinstrument-Ausschlag: 4,8 Skalenteilungen.
- *5. TUNER Eingang für einen Feldstärkeinstrument-Ausschlag von 3 Skalenteilungen.
- *6. TUNER Eingang bei Schritt 4.

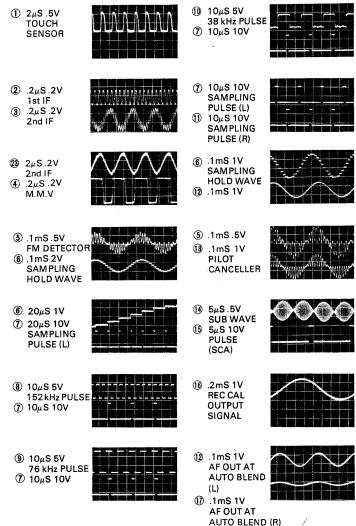
TUNER (X05-1910) Component side view
SWITCH (X13-2980) Component side view

Refer to the schematic diagram for the values of resistors and capacitors.



WAVEFORMS AT CHECK POINTS

- ① ~ ④ : FM 95 MHz 0 (Dev) 60 dB (ANT input)
 FM 95 MHz 1.9 kHz (Mod) 68.25 kHz (Dev) 60 dB (ANT input)
 FM 95 MHz 1.9 kHz (Mod) 68.25 kHz (Dev) 26 dB (ANT input)



KENWOOD®

AM-FM STEREO TUNER

2SA850
2SC1735

2SA733
2SC628A

2SB614
2SD330

2SK125

2SK61

2SK105

μPC4557C

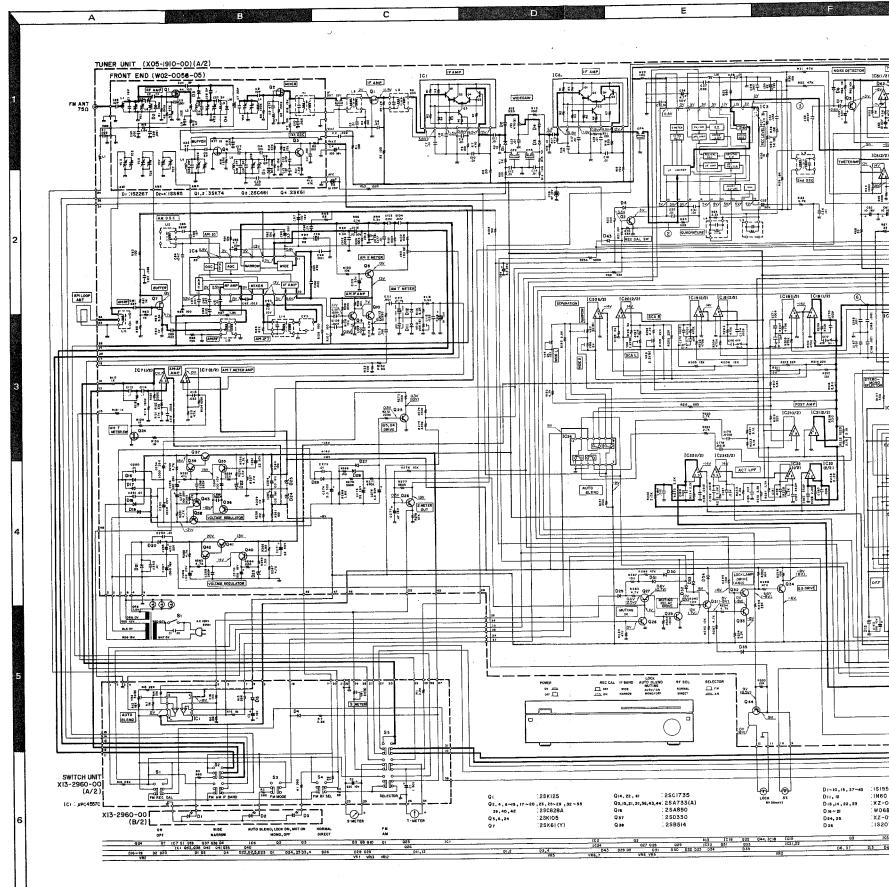
TR4011
HA1123W

MB84066B
MB84002B
MB84013B
MB84071B
TC4060BP

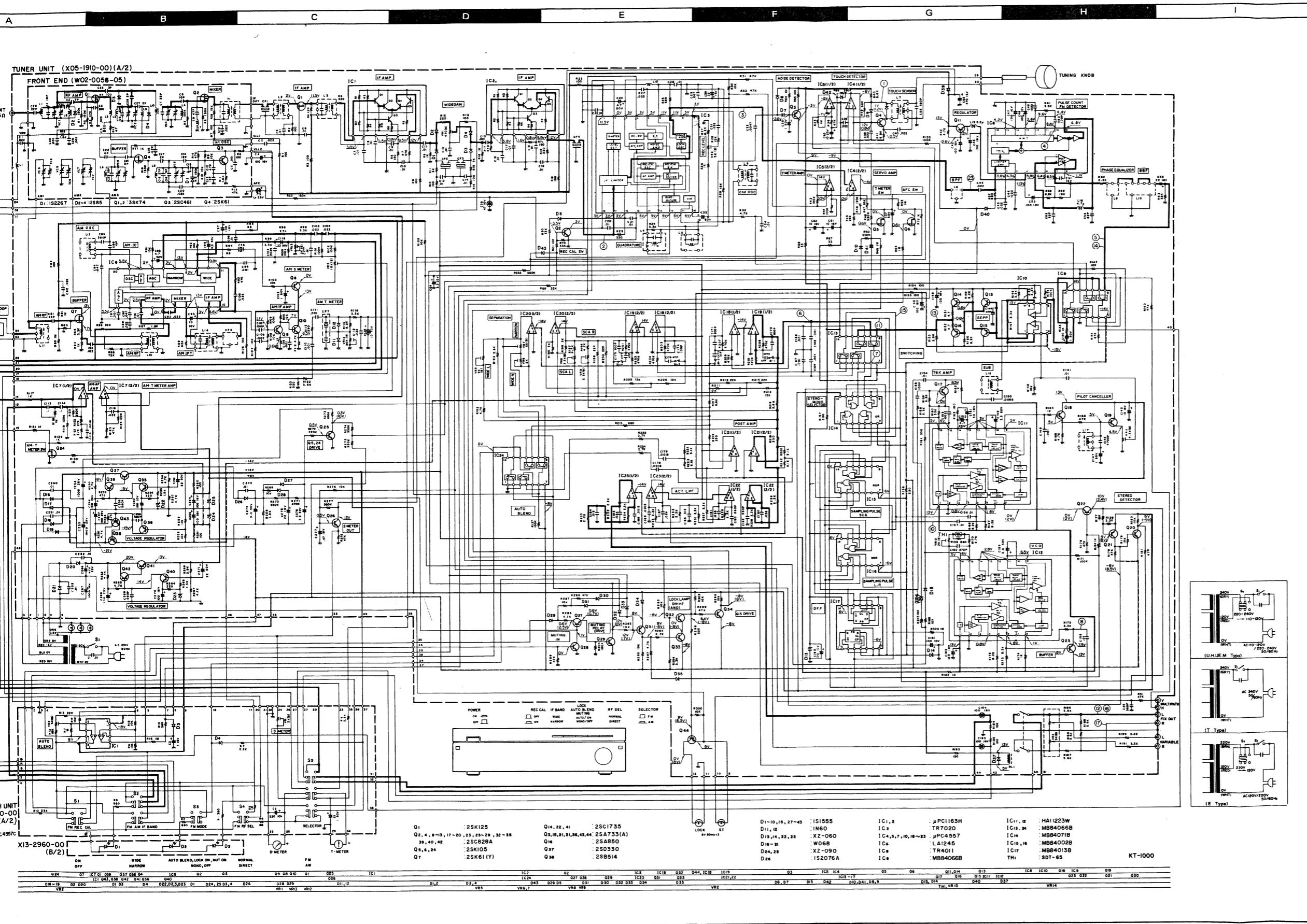
LA1245

TR7020

μPC1163H



AM-FM STEREO TUNER



PARTS LIST

INSTRUCTION FOR PARTS LIST

Ref. No.	Parts No.	Description	Re-marks
参照番号	部品番号	部品名／規格	備考
②	A21-0268-12	METALLIC CERAMIC	
19 2A	A2C-1979-51	FRONT PANEL ASSY	PC
19 2A	A2C-1979-51	FRONT PANEL ASSY	PC
19 2A	A2C-1979-51	FRONT PANEL ASSY	PC
5	A221-#43-1335-15	FL-PROOF RD330 J 2W	⑥
Vari. 2	#12-3331-05	TRIMMING POT. 20K(Ω)	
Vari. 2	#12-3331-05	POTENTIOMETER (OUTPUT)	
Vari. 2	#12-3325-05	TRIMMING POT. 5K(Ω)	

① Exploded view drawing No.

② Position in exploded view.

③ Symbol of new parts.

④ Area to which parts are shipped. Example: A20-1979-11 is the part No. of FRONT PANEL ASSY for the "K" type products (for U.S.A.). When this column is blank, it means that the same type of parts (same parts No.) are used for the products shipped to all areas.

⑤ Reference No. in schematic diagram.

⑥ Abbreviation of "Flame-proof carbon film resistor".

All capacitors and resistors are listed using abbreviations.

Abbreviations

• Abbreviations of capacitors (Parts No. with initial letter "C").

ELECTRO Electrolytic capacitor

LL-ELEC Low leak electrolytic capacitor

NP-ELEC Non-pole electrolytic capacitor

MICA Mica capacitor

POLYSTY Polyethylene capacitor

MYLAR Mylar capacitor

CERAMIC Ceramic capacitor

TANTAL Tantalum capacitor

MF Metalized film capacitor

MP Metalized paper capacitor

OIL Oil capacitor

The unit "UF" is used in lieu of "μF".

▪ Abbreviations of resistors (Parts No. with initial letters "R").

RC Carbon composition resistor

RD Carbon composition resistor

FL-PROOF RD Flame-proof carbon film resistor

RW Wire wound power resistor

FL-PROOF RS Flame-proof metal oxide film resistor

RN Metal film resistor

FUSE-RESIST Resistor with fuse function

2B Rated voltage 2BV

2E Rated voltage 2EW

2H Rated voltage 1/2W

3A Rated wattage 1W

3D Rated wattage 2W

3F Rated wattage 3W

3G Rated wattage 4W

3H Rated wattage 5W

All resistor values are indicated with the unit (Ω) omitted.

▪ Abbreviations common to capacitors and resistors.

C ±20% (Used for capacitors only)

D ±50% (Used for capacitors only)

F ±1%

G ±2%

J ±5%

K ±10%

M ±20%

Z +80% -20% (Used for capacitors only)

P +100% -0% (Used for capacitors only)

Resistors RD (carbon composition resistors) are not listed in the parts list. For values, refer to the schematic diagram.

• CODEs in X05-191-***

X: X05-1910-11

U: X05-1910-81

E: X05-1912-71

KT-1000 (UNIT)

Ref. No.	Parts No.	Description	Re-marks
参照番号	部品番号	部品名／規格	備考
1 2A	-	SUB CHASSIS	
2	-	METALLIC FRAME	
3 1B	-	REAR PANEL	
4 2B	-	REFLECTOR	
5 1A	-	BOTTOM PLATE	

Ref. No.	Parts No.	Description	Re-marks
参照番号	部品番号	部品名／規格	備考
6 3A	A20-1732-02	FRONT PANEL	K*
6 3A	A20-1732-02	FRONT PANEL	H
6 3A	A20-1732-02	FRONT PANEL	UE
6 3A	A20-1732-02	FRONT PANEL	X*
7 3B	-	SUB PANEL	
8 2B	A50-0186-03	BACK BOARD ASSY	*
9 1A	-	TERMINAL	
10 2A	A50-0084-02	SIDE PLATE (L)	
11 3B	A50-0085-02	SIDE PLATE (R)	
12 1A	A50-0363-02	TOP PLATE	*
-	b41-0229-04	CAUTION LABEL	K
64-0427-24	LABEL	PU	
64-0427-24	LABEL	M*	
64-0427-24	LABEL	UE	
64-0427-24	LABEL	XT	
-	b42-0473-24	LABEL	E
64-0055-30	WARRANTY CARD	P	
B4-0026-00	WARRANTY CARD	T	
B4-0026-00	WARRANTY CARD	UE	
B4-0062-30	WARRANTY CARD	UH	
B4-0062-30	WARRANTY CARD	UE	
B4-0063-30	WARRANTY CARD	UE	
B4-0063-13	WARRANTY CARD MILITARL	UH	
B4-0063-13	WARRANTY CARD MILITARL	UE	
B4-0063-13	WARRANTY CARD MILITARL	XT	
-	b44-0062-30	INSTRUCTION MANUAL	K*
B50-3258-00	INSTRUCTION MANUAL	PU	
B50-3258-00	INSTRUCTION MANUAL	M*	
B50-3258-00	INSTRUCTION MANUAL	UE	
B50-3258-00	INSTRUCTION MANUAL	X	
-	b50-3258-00	INSTRUCTION MANUAL	P*
-	b50-3258-00	INSTRUCTION MANUAL	UE
-	b50-3258-00	INSTRUCTION MANUAL	XT
-	b59-0018-00	INSTRUCTION PRINT	UH
-	b59-0018-00	INSTRUCTION PRINT	UE
-	b59-0018-00	INSTRUCTION PRINT	XT
13 3A	b07-0345-04	ESCUCHON (TUNING)	
14 3B	b07-0350-04	ESCUCHON	*
15 3B	b07-0350-04	FRONT GLASS	
17 3B	b20-0482-04	DIAL CALIBRATION	
18 2B	b21-0046-14	DIAL PRINTER	*
19 3A	B30-0261-05	LAMP 8V/15A	*
20 2B	B30-0260-05	LAMP 8V/20A	
21 2B	B30-0127-05	LAMP 8V/05A	
22 2B	B30-0127-05	LAMP 8V/05A	
23 2B	B31-0317-05	MEETER (T)	*
25 2A	C1	CERAMIC 0.01UF AC250V	UM
25 2A	C1	CERAMIC 0.01UF AC250V	MX
25 2A	C1	CERAMIC 0.01UF AC250V	UE
25 2A	C1	CERAMIC 0.01UF AC250V	KP
25 2A	C1	CERAMIC 0.01UF AC250V	TE
30 2A	D15-0737-14	PULLEY	
31 2A	D15-0737-14	PULLEY ASSY	
32 2A	D15-0176-03	PULLEY	
33 2B	D20-0158-03	DIAL SHAFT ASSY	*

Resistors RD (carbon composition resistors) are not listed in the parts list.

For values, refer to the schematic diagram.

• CODEs in X05-191-***

X: X05-1910-11

U: X05-1910-81

E: X05-1912-71

PARTS LIST

INSTRUCTION FOR PARTS LIST

PARTS LIST

KT-1000 KT-1000

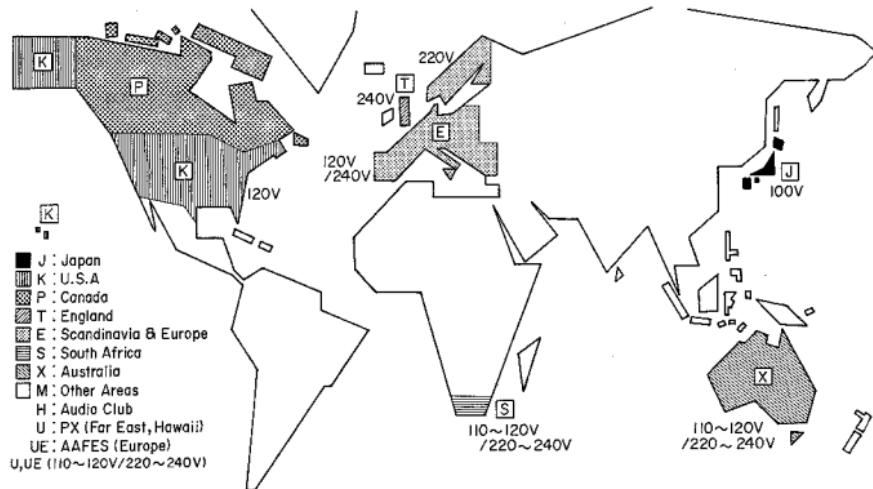
Ref. No.	Parts No.	Description	Re-mark 備考
參照番号	部品番号	部品名／規格	
-	E05-0127-05	PLUG	KP
-	E05-0127-05	PLUG	UM
-	E05-0127-05	PLUG	H
-	E05-0127-05	PLUG	UE
-	E05-0127-05	PLUG	XT
-	E19-0211-05	PLUG	
-	E30-0505-05	AUDIO CORD	E
-	E30-0505-05	AUDIO CORD	KP
34 18	E13-0116-05	PHONO JACK (AM IN OUT)	UM
34 18	E13-0116-05	PHONO JACK (AM IN OUT)	UE
34 18	E13-0116-05	PHONO JACK (AM IN OUT)	XT
35 18	E20-0228-05	TERMINAL BOARD	*
36 18	E30-0181-05	POWER CORD	KP
36 18	E30-0459-05	POWER CORD	UE
36 18	E30-0459-05	POWER CORD	XT
36 18	E30-0545-05	POWER CORD	H
36 18	E30-0545-05	POWER CORD	UE
36 18	E30-0545-05	POWER CORD	XT
36 18	E30-0587-05	POWER CORD	
36 18	E30-0649-05	POWER CORD	
37 28		SLIDER	
38 28	G01-0368-04	COILED SPRING	
-	H01-3219-04	CARTON BOX	UM
-	H01-3219-04	CARTON BOX	HX
-	H01-3220-04	CARTON BOX	UE
-	H01-3220-04	CARTON BOX	XT
-	H01-3221-04	CARTON BOX	E
-	H01-3259-04	CARTON BOX	K
-	H01-3274-04	CARTON BOX	T
-	H10-1562-02	POLYSTYRENE FIXTURE	
-	H20-0002-04	COVER	
-	H20-0002-04	BASE	
-	H25-0096-04	BAG	
39 18	J19-0564-05	HOLDER	
40 28	J42-0083-05	BUSHING (POWER CORD)	KP
41 18	J42-0083-05	BUSHING (POWER CORD)	UE
41 18	J42-0083-05	BUSHING (POWER CORD)	H
41 18	J42-0083-05	BUSHING (POWER CORD)	XT
42 28	J42-0083-05	BUSHING (POWER CORD)	
43 34	K21-0350-04	KNOB (TUNING)	
44 34	K27-0189-04	KNOB (VOLUME)	*
45 34	K27-0189-04	KNOB (POWER)	
46 34	K27-0193-04	KNOB (SELECTOR)	*
47 24	L01-2201-05	POWER TRANSFORMER	X
47 24	L01-2201-05	POWER TRANSFORMER	P
47 24	L01-2202-05	POWER TRANSFORMER	T
47 24	L01-2202-05	POWER TRANSFORMER	UE
47 24	L01-2204-05	POWER TRANSFORMER	MH
47 24	L01-2204-05	POWER TRANSFORMER	UE
47 24	L01-2204-05	POWER TRANSFORMER	XT
47 24	L01-2207-05	POWER TRANSFORMER	E
48 34	N14-0127-04	NUT	
49 24	J42-0092-04	BUSHING	*
S1	S40-1022-05	PUSH SWITCH	UM
S1	S40-1022-05	PUSH SWITCH	HX
S1	S40-1022-05	PUSH SWITCH	UE
S1	S40-1022-05	PUSH SWITCH	KP
S1	S40-1025-05	PUSH SWITCH	UE

Ref. No.	Parts No.	Description	Re-mark 備考
參照番号	部品番号	部品名／規格	
S2	S31-2053-05	SLIDE SWITCH	UM
S2	S31-2053-05	SLIDE SWITCH	H
S2	S31-2053-05	SLIDE SWITCH	UE
S2	S31-2053-05	SLIDE SWITCH	XT
-	T00-0101-05	ANTENNA ADAPTER	
50 18	T90-0202-05	ANTENNA F/F INDOOR	
50 18	T90-0111-05	ANTENNA AM LOOP	
51 28	X05-1910-11	TUNER PCB ASSY	*
51 28	X05-1910-11	TUNER PCB ASSY	P
51 28	X05-1910-11	TUNER PCB ASSY	UE
51 28	X05-1910-81	TUNER PCB ASSY	MM
51 28	X05-1912-71	TUNER PCB ASSY	UE
52 38	X13-2960-05	SWITCH PCB ASSY	E
TUNER (X05-110-**)			
C17	C91-0083-05	CERAMIC 0.022UF	N
C18	C91-0083-05	CERAMIC 0.022UF	25MV
C4	C25-1210-77	LL-ELEC 100UF	16MV
C5 -14	C91-0083-05	CERAMIC 0.01UF	N
C15	C52-1710-26	CERAMIC 0.001UF	X
C16 -22	C91-0083-05	CERAMIC 0.01UF	N
C24	C25-1210-57	LL-ELEC 560PF	50MV
C25	C25-1210-67	LL-ELEC 560PF	16MV
C26	C25-1210-67	LL-ELEC 10UF	16MV
C27	C91-0083-05	CERAMIC 0.022UF	N
C28	C91-0083-05	CERAMIC 0.01UF	Z
C29	C53-1747-38	CERAMIC 0.047UF	Z
C30	C53-1747-38	CERAMIC 0.047UF	10MV
C31	C91-0083-05	CERAMIC 0.022UF	N
C32	C25-1210-77	LL-ELEC 10UF	16V
C34	C91-0083-05	CERAMIC 0.01UF	N
C35	C25-1710-26	LL-ELEC 0.1UF	50MV
C36	C91-0083-05	CERAMIC 0.022UF	N
C37	C25-1710-26	LL-ELEC 0.1UF	50MV
C38	C26-1447-67	ND-ELEC 47UF	25MV
C39	C91-0083-05	CERAMIC 0.022UF	N
C40	C91-0161-05	CERAMIC 0.027UF	N
C42 ,43	C25-1210-77	LL-ELEC 100UF	16MV
C44	C91-0083-05	CERAMIC 0.022UF	N
C47 ,48	C24-1010-79	ELECTRO 100UF	10V
C54	C71-1782-05	CERAMIC 0.2PF	Z
C55	C24-1222-67	ELECTRO 22UF	16MV
C56	C71-1782-05	CERAMIC 0.2PF	Z
C61 ,62	C25-1210-67	LL-ELEC 10UF	16MV
C65	C25-1410-77	LL-ELEC 10UF	25MV
C53	C24-1010-79	ELECTRO 100UF	10MV
C54	C71-1782-05	CERAMIC 0.2PF	Z
C55	C24-1222-67	ELECTRO 22UF	16MV
C56	C71-1782-05	CERAMIC 0.2PF	Z
C61 ,62	C25-1210-67	LL-ELEC 10UF	16MV
C65	C25-1410-77	LL-ELEC 10UF	25MV
C66	C25-1733-57	LL-ELEC 3.3UF	50W
C67	C52-1710-26	CERAMIC 0.001UF	Z
C68	C52-1710-26	CERAMIC 0.001UF	K
C69	C55-1747-38	CERAMIC 0.047UF	Z
C70	C52-1710-26	CERAMIC 0.047UF	10MV
C71	C52-1710-26	CERAMIC 0.047UF	50W
C72	C25-1733-57	LL-ELEC 3.3UF	50W
C73	C52-1710-26	CERAMIC 0.047UF	Z
C74	C25-1733-57	LL-ELEC 3.3UF	50W
C75	C24-1222-67	ELECTRO 22UF	16MV
C76	C22-1733-57	LL-ELEC 3.3UF	50W
C77	C25-1747-47	LL-ELEC 4.7UF	50W
C96	C25-1733-57	LL-ELEC 3.3UF	50W
C97	C25-1733-57	LL-ELEC 3.3UF	16MV
C98	C46-1735-26	MYLAR 0.0039UF	J
C102	C46-1735-26	MYLAR 0.0039UF	J
C103 ,104	C46-1722-35	LL-ELEC 0.022UF	J
C105	C25-1710-57	LL-ELEC 1UF	50W
C107	C71-1710-15	CERAMIC 100PF	J
C108	C25-1710-57	MYLAR 0.001UF	J
C111	C52-1710-26	CERAMIC 0.001UF	K
C113 ,114	C25-1710-47	LL-ELEC 0.1UF	50W
C115	C46-1715-25	MYLAR 0.0015UF	J
C117	C46-1710-35	MYLAR 0.01UF	J
C119	C46-1010-67	NP-ELEC 10UF	10WV
C120	C46-1710-67	NP-ELEC 10UF	10WV
C141	C97-0083-05	CERAMIC 0.01UF	N
C142	C25-1710-77	LL-ELEC 100UF	16MV
C143	C25-1210-67	LL-ELEC 10UF	16MV
C145	C25-1210-77	LL-ELEC 100UF	16WV
C146	C47-1747-25	POLYSTY 470UF	J
C147	C25-1710-37	LL-ELEC 1UF	50W
C148	C46-1710-25	MYLAR 0.001UF	J
C149	C46-1710-25	MYLAR 0.001UF	50W
C150	C46-1782-25	MYLAR 0.002UF	J
C151	C25-1233-67	LL-ELEC 33UF	16WV
C152	C46-1733-67	LL-ELEC 2.2UF	50W
C153	C46-1722-25	MYLAR 0.0022UF	J
C154	C91-0083-05	CERAMIC 0.01UF	N
C155	C46-1722-25	MYLAR 0.0022UF	J
C156 ,158	C91-0083-05	CERAMIC 0.01UF	N
C159	C25-1733-57	LL-ELEC 3.3UF	50W
C160	C46-1727-15	POLYSTY 270PF	J
C161 ,162	C46-1010-79	ELECTRO 100UF	10W
C163	C25-1210-77	LL-ELEC 100UF	16MV
C164 ,165	C46-1710-79	ELECTRO 100UF	16MV
C166 ,169	C46-1710-25	MYLAR 0.001UF	J
C170 ,171	C91-0185-05	POLYSTY 100PF	G
C172 ,173	C91-0185-05	POLYSTY 47UF	G
C174 ,175	C91-0185-05	POLYSTY 100PF	G
C176 ,177	C91-0185-05	POLYSTY 47UF	G
C178	C46-1715-25	MYLAR 0.0018UF	J
C180 ,181	C46-1733-35	MYLAR 0.036UF	J
C182 ,183	C46-1733-35	MYLAR 0.036UF	10W
C184 ,185	C46-1712-35	MYLAR 0.012UF	J
C186 ,187	C46-1724-35	MYLAR 0.024UF	J
C188 ,189	C46-1715-25	MYLAR 0.0015UF	J
C250-253	C55-1710-38	CERAMIC 0.01UF	Z
C254 ,255	C24-1010-81	ELECTRO 100UF	25W
C256 ,257	C24-1010-81	ELECTRO 100UF	25W
C258 ,259	C52-1756-16	CERAMIC 560PF	K
C260	C24-1010-79	ELECTRO 100UF	10W
C261	C24-1222-67	ELECTRO 22UF	16MV
C264 ,265	C24-1010-79	ELECTRO 100UF	10W
C266	C24-1010-81	ELECTRO 100UF	25W
C267	C52-1756-16	CERAMIC 560PF	K
C270	C24-1010-79	ELECTRO 100UF	10W
C273	C55-1710-38	CERAMIC 0.01UF	Z
C274	C25-1733-57	LL-ELEC 3.3UF	50W
C275	C24-1222-67	ELECTRO 22UF	16MV
C276	C22-1733-57	LL-ELEC 3.3UF	50W
C277	C25-1747-47	LL-ELEC 4.7UF	50W
C86	C71-1703-01	CERAMIC 3PF	C
C87	C52-1710-26	CERAMIC 0.001UF	Z
C90	C55-1747-38	CERAMIC 0.047UF	Z
C91	C52-1710-26	CERAMIC 0.047UF	10MV
C92	C52-1710-26	CERAMIC 0.047UF	50W
C95	C48-1736-35	POLYSTY 360PF	J
C96	C71-1703-01	CERAMIC 3PF	C
C97	C52-1710-26	CERAMIC 0.001UF	Z
C98	C55-1747-38	CERAMIC 0.047UF	Z
C99	C52-1710-26	CERAMIC 0.047UF	10MV
C100	C52-1710-26	CERAMIC 0.047UF	50W
C101	C52-1710-26	CERAMIC 0.047UF	10W
C102	C52-1710-26	CERAMIC 0.047UF	50W
C103	C52-1710-26	CERAMIC 0.047UF	10W
C104	C52-1710-26	CERAMIC 0.047UF	50W
C105	C52-1710-26	CERAMIC 0.047UF	10W
C106	C52-1710-26	CERAMIC 0.047UF	50W
C107	C52-1710-26	CERAMIC 0.047UF	10W
C108	C52-1710-26	CERAMIC 0.047UF	50W
C109	C52-1710-26	CERAMIC 0.047UF	10W
C110	C52-1710-26	CERAMIC 0.047UF	50W
C111	C52-1710-26	CERAMIC 0.047UF	10W
C112	C52-1710-26	CERAMIC 0.047UF	50W
C113	C52-1710-26	CERAMIC 0.047UF	10W
C114	C52-1710-26	CERAMIC 0.047UF	50W
C115	C52-1710-26	CERAMIC 0.047UF	10W
C116	C52-1710-26	CERAMIC 0.047UF	50W
C117	C52-1710-26	CERAMIC 0.047UF	10W
C118	C52-1710-26	CERAMIC 0.047UF	50W
C119	C52-1710-26	CERAMIC 0.047UF	10W
C120	C52-1710-26	CERAMIC 0.047UF	50W
C121	C52-1710-26	CERAMIC 0.047UF	10W
C122	C52-1710-26	CERAMIC 0.047UF	50W
C123	C52-1710-26	CERAMIC 0.047UF	10W
C124	C52-1710-26	CERAMIC 0.047UF	50W
C125	C52-1710-26	CERAMIC 0.047UF	10W
C126	C52-1710-26	CERAMIC 0.047UF	50W
C127	C52-1710-26	CERAMIC 0.047UF	10W
C128	C52-1710-26	CERAMIC 0.047UF	50W
C129	C52-1710-26	CERAMIC 0.047UF	10W
C130	C52-1710-26	CERAMIC 0.047UF	50W
C131	C52-1710-26	CERAMIC 0.047UF	10W
C132	C52-1710-26	CERAMIC 0.047UF	50W
C133	C52-1710-26	CERAMIC 0.047UF	10W
C134	C52-1710-26	CERAMIC 0.047UF	50W
C135	C52-1710-26	CERAMIC 0.047UF	10W
C136	C52-1710-26	CERAMIC 0.047UF	50W
C137	C52-1710-26	CERAMIC 0.047UF	10W
C138	C52-1710-26	CERAMIC 0.047UF	50W
C139	C52-1710-26	CERAMIC 0.047UF	10W
C140	C52-1710-26	CERAMIC 0.047UF	50W
C141	C52-1710-26	CERAMIC 0.047UF	10W
C142	C52-1710-26	CERAMIC 0.047UF	50W
C143	C52-1710-26	CERAMIC 0.047UF	10W
C144	C52-1710-26	CERAMIC 0.047UF	50W
C145	C52-1710-26	CERAMIC 0.047UF	10W
C146	C52-1710-26	CERAMIC 0.047UF	50W
C147	C52-1710-26	CERAMIC 0.047UF	10W
C148	C52-1710-26	CERAMIC 0.047UF	50W
C149	C52-1710-26	CERAMIC 0.047UF	10W
C150	C52-1710-26	CERAMIC 0.047UF	50W
C151	C52-1710-26	CERAMIC 0.047UF	10W
C152	C52-1710-26	CERAMIC 0.047UF	50W
C153	C52-1710-26	CERAMIC 0.047UF	10W
C154	C52-1710-26	CERAMIC 0.047UF	50W
C155	C52-1710-26	CERAMIC 0.047UF	10W
C156	C52-1710-26	CERAMIC 0.047UF	50W
C157	C52-1710-26	CERAMIC 0.047UF	10W
C158	C52-1710-26	CERAMIC 0.047UF	50W
C159	C52-1710-26	CERAMIC 0.047UF	10W

PARTS LIST

Ref. No.	Parts No.	Description	Re- marks
參照番号	部品番号	部品名／規格	備考
I ⁶	V30-0519-10	LA1245	
I ⁷	V30-0273-20	UPC4557C	
I ⁸	V30-0509-10	TR4011	
I ⁹	V30-0516-10	M8B4066B	
I ¹⁰	V30-0273-20	UPC4557C	
I ¹¹ , ¹²	V30-0516-20	HA1223A	
I ¹³	V30-0516-10	M8B4066B	
I ¹⁴	V30-0530-10	M8B4071B	
I ¹⁵ , ¹⁶	V30-0528-10	M8B4002B	
I ¹⁷	V30-0529-10	M8B4013B	
I ¹⁸ - ²³	V30-0273-20	UPC4557C	
I ²⁴	V30-0516-10	M8B4066B	
Q ¹	V09-01536-10	2SK125	
Q ²	V03-0504-05	2SC828A	
Q ³	V01-0733-90	2SA733(A)	
Q ⁴	V03-0504-05	2SC828A	
Q ⁵ - ⁶	V09-0127-40	2SK105(H,J)	
Q ⁷	V09-0124-20	2SK61(Y)	
Q ⁸ - ¹¹	V03-0504-05	2SC828A	
Q ¹³	V03-0504-05	2SC828A	
Q ¹⁴	V03-0452-05	2SC1735	
Q ¹⁵	V01-0733-90	2SA733(A)	
Q ¹⁶	V01-0173-05	2SA830	
Q ¹⁷ - ²⁰	V03-0504-05	2SC828A	
Q ²¹	V01-0733-90	2SA733(A)	
Q ²²	V03-0452-05	2SC1735	
Q ²³	V03-0504-05	2SC828A	
Q ²⁴	V09-0127-40	2SK105(H,J)	
Q ²⁵ - ²⁹	V03-0504-05	2SC828A	
Q ³¹	V01-0733-90	2SA733(A)	
Q ³²	V01-0733-90	2SA733(A)	
Q ³³ - ³⁵	V03-0504-05	2SC828A	
Q ³⁶	V01-0733-90	2SA733(A)	
Q ³⁷	V04-0330-00	2SD330	
Q ³⁸	V02-0514-20	2SD514(E,F)	
Q ³⁹ - ⁴⁰	V03-0504-05	2SC828A	
Q ⁴¹	V03-0452-05	2SC1735	
Q ⁴²	V03-0504-05	2SC828A	
Q ⁴⁴	V01-0733-90	2SA733(A)	
TH ¹	V22-0006-05	SDT-65	
-	W02-0056-05	FM FRONT END	
SWITCH (X13-2960-00)			
Q ¹ - ³	B30-0264-05	LAMP (LED)	*
Q ⁴ - ⁵	V11-0076-05	1x1555	
I ¹	V30-0273-20	UPC4557C	
C ¹	C24-1710-57	ELECTRO TUF 50V	
C ²	C24-1022-77	ELECTRO 220UF 10V	
C ³	C24-1710-57	ELECTRO TUF 50V	
VR ¹	R12-1303-05	TRIMMING POT. 2K	
VR ²	R12-2302-05	TRIMMING POT. 5K	
S ¹ - ⁵	S42-5022-05	PUSH SWITCH	*
FRONTEND (W02-0056-00)			
Q ¹	V11-2200-30	1x2267	
Q ²	V11-7702-00	1x585	
Q ¹ - ²	V09-1002-56	3x74	
Q ³	V03-0461-20	2SC461	
Q ⁴	V09-0124-20	2SM61	

WORLD MAP & AREA CODE



- J : Japan
- K : U.S.A.
- P : Canada
- T : England
- E : Scandinavia & Europe
- S : South Africa
- X : Australia
- M : Other Areas
- H : Audio Club
- U : PX (Far East, Hawaii)
- UE : AAFES (Europe)
- U,UE (110~120V/220~240V)

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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